

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5244 - L2 Version 4  
Chandra X-Ray Center

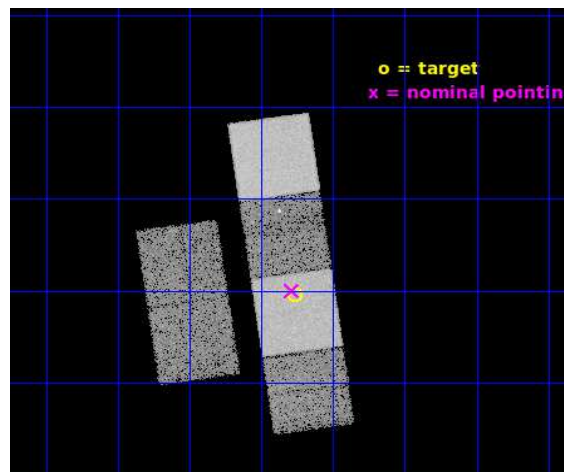
L2 Processing Date : Oct 2 2020

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# 1 Front

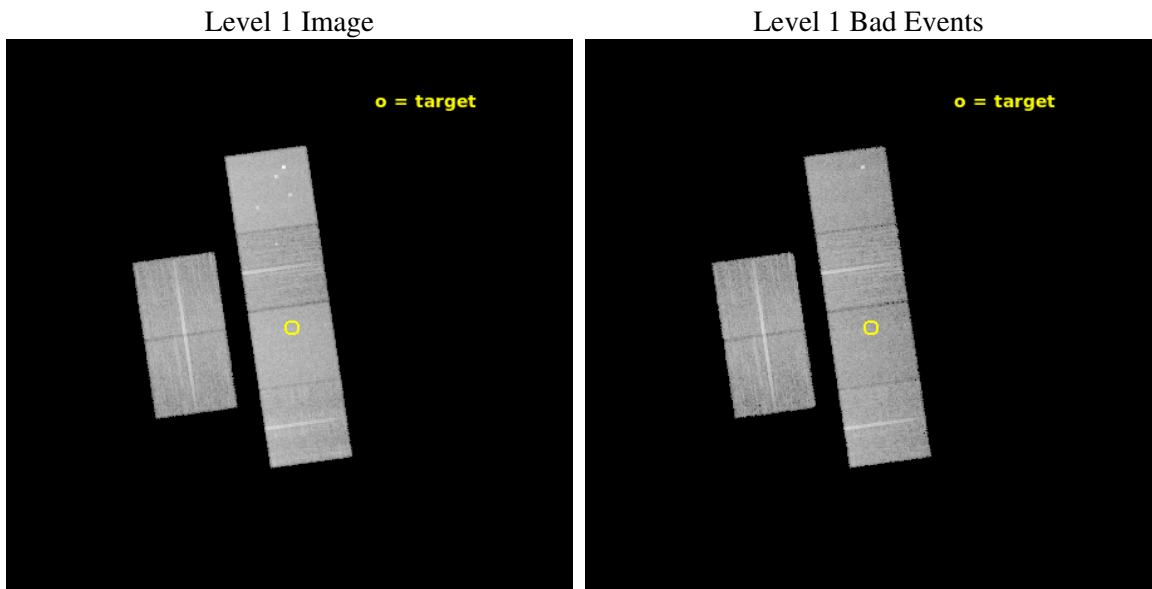
seq_num	701009	Sequence number
obs_id	5244	Observation id
title	Characterization of quiescent X-ray emission from peculiar X-ray flash sources	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	PKS J0234-0049	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	38.69125	Observer's specified target RA [deg]
dec_targ	-0.840028	Observer's specified target Dec [deg]
ra_nom	38.696667598624	Nominal RA [deg]
dec_nom	-0.83327689481179	Nominal Dec [deg]
roll_nom	81.87343937376	Nominal Roll [deg]
revision	4	Processing version of data
ontime	13458.110183746	Sum of GTIs [s]
livetime	13287.695489098	Livetime [s]
ontime2	13458.151223749	Sum of GTIs [s]
ontime3	13457.987063736	Sum of GTIs [s]
ontime5	13458.069143742	Sum of GTIs [s]
ontime6	13458.028103739	Sum of GTIs [s]
ontime7	13458.110183746	Sum of GTIs [s]
ontime8	13457.946023762	Sum of GTIs [s]
l2events	162258	Number of level 2 events



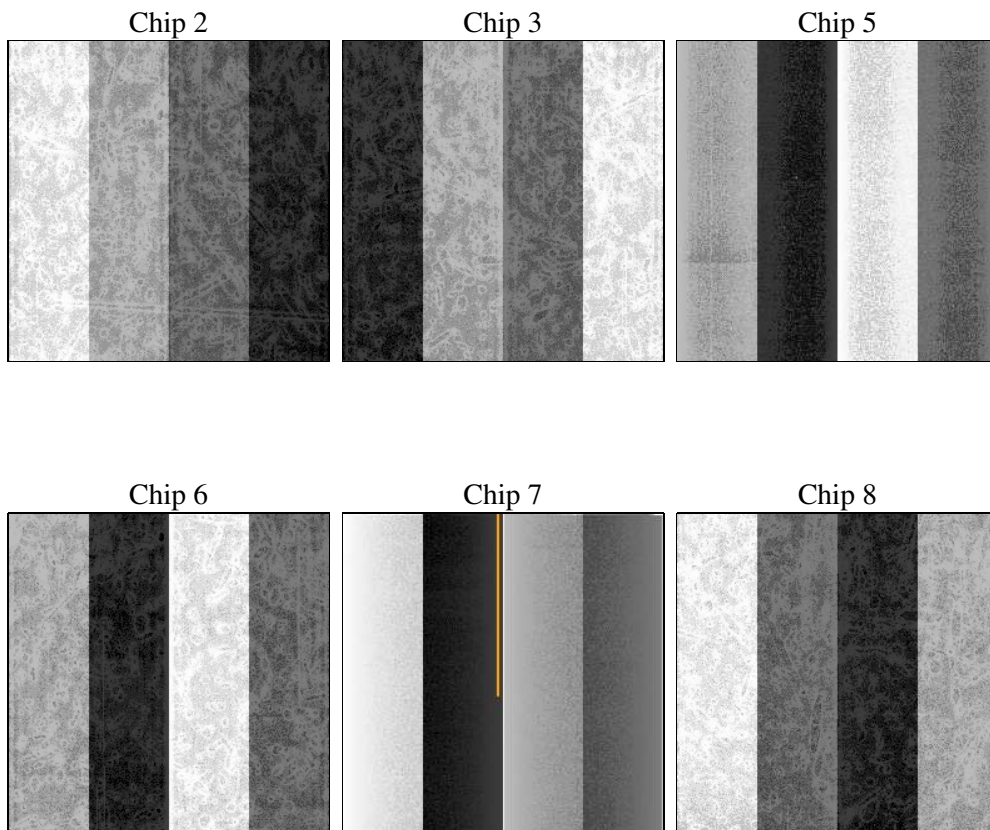
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	13458.110183746	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime2	13458.151223749	Sum of GTIs [s]
date	2020-10-02T20:33:36	Date and time of file creation	ontime3	13457.987063736	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	13458.069143742	Sum of GTIs [s]
			ontime6	13458.028103739	Sum of GTIs [s]
			ontime7	13458.110183746	Sum of GTIs [s]
			ontime8	13457.946023762	Sum of GTIs [s]
			l1events	725035	Number of level 1 events

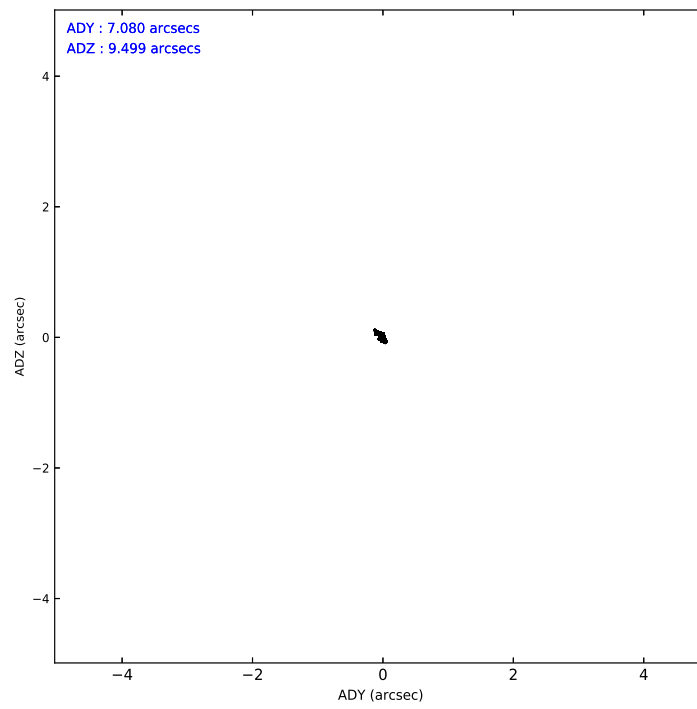
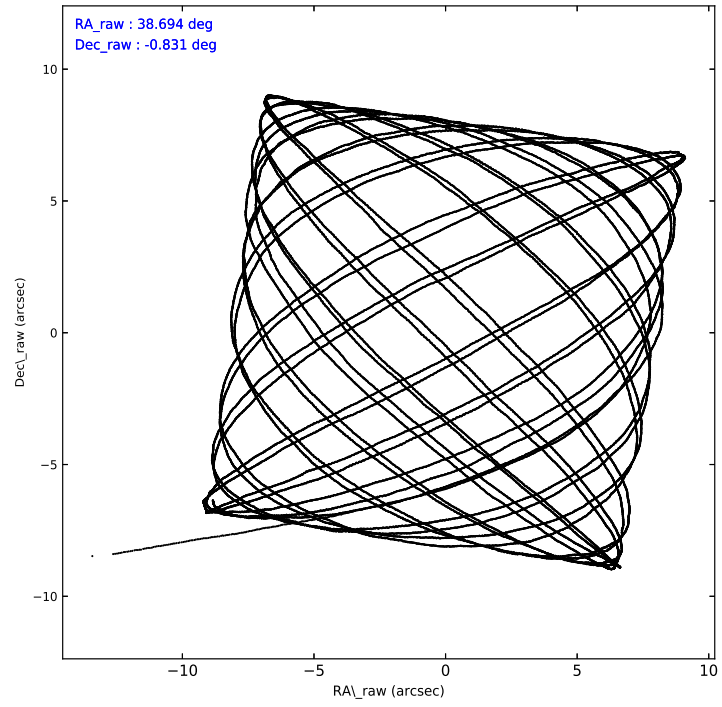
### 2.1.4 Events

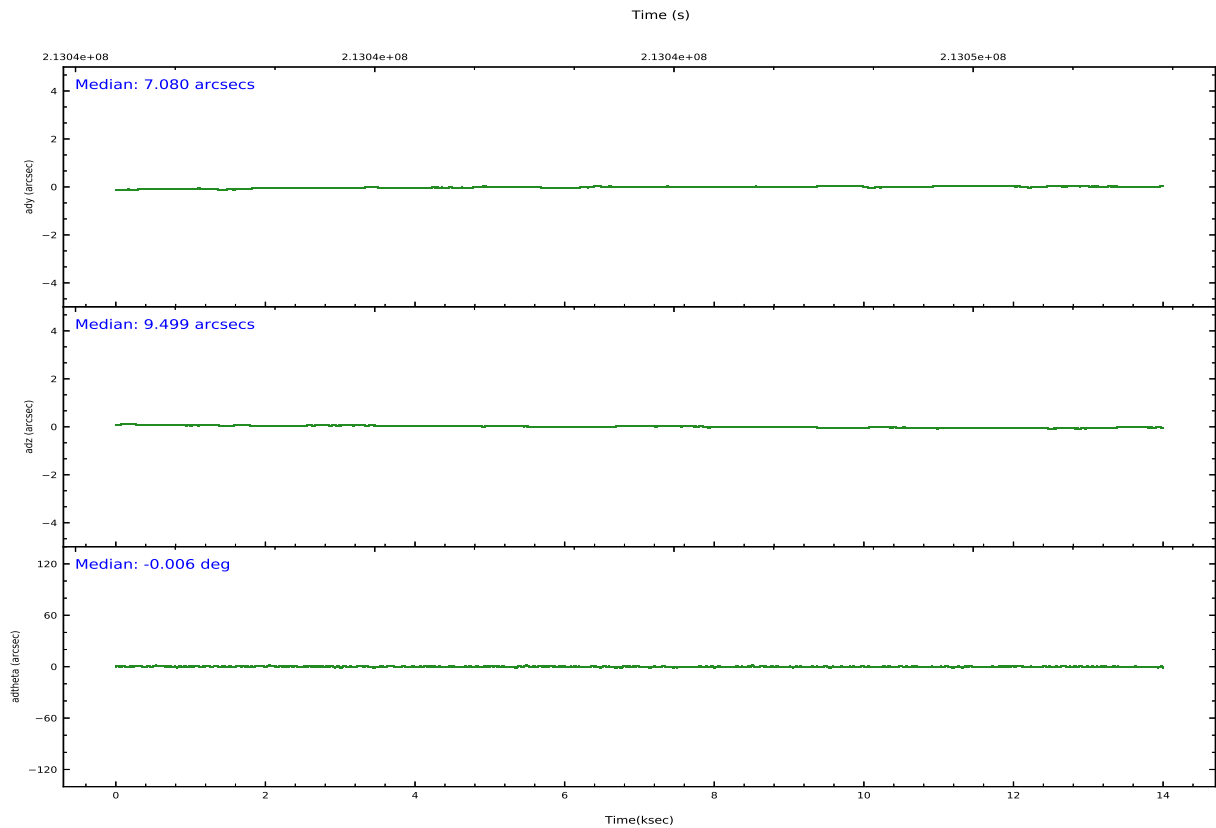
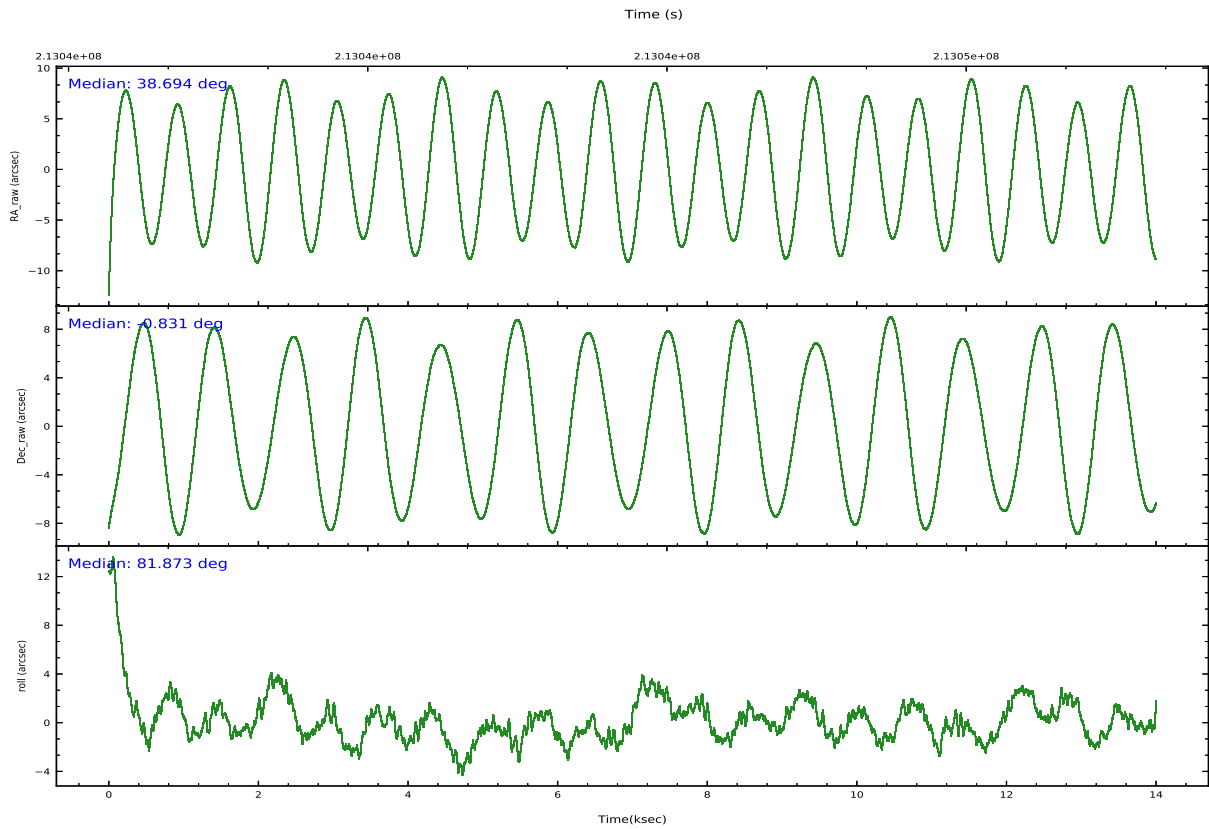
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	103647	97851	153151	104468	139090	126828	grade 0 events	5114	4964	6161	4938	5123	8475
rejected events	91688	86489	83511	92184	81893	99283		4%	5%	4%	4%	3%	6%
rejected %	88%	88%	54%	88%	58%	78%	grade 1 events	70	56	166	49	168	97
								0%	0%	0%	0%	0%	0%
							grade 2 events	2504	2176	21638	2511	11367	6110
								2%	2%	14%	2%	8%	4%
							grade 3 events	1146	1176	2726	1229	5066	2789
								1%	1%	1%	1%	3%	2%
							grade 4 events	1144	1116	2304	1180	4973	2714
								1%	1%	1%	1%	3%	2%
							grade 5 events	4063	4456	11535	4614	13178	6062
								3%	4%	7%	4%	9%	4%
							grade 6 events	2051	1932	36846	2434	30704	7470
								1%	1%	24%	2%	22%	5%
							grade 7 events	87555	81975	71775	87513	68511	93111
								84%	83%	46%	83%	49%	73%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	38.704765	38.696667598624	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.855975	-0.83327689481179	Alternating exposures requested	N	N
[deg] Pointing Roll	81.721543	81.87343937375999	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	213037040.184000	213035765.78295			
Observation start date	2004-10-01T16:56:16	2004-10-01T16:36:05			
[s] Observation end time (MET)	213050540.184000	213051279.67115			
Observation end date	2004-10-01T20:41:16	2004-10-01T20:54:39			
Read mode	TIMED	TIMED			

## 2.3 Aspect





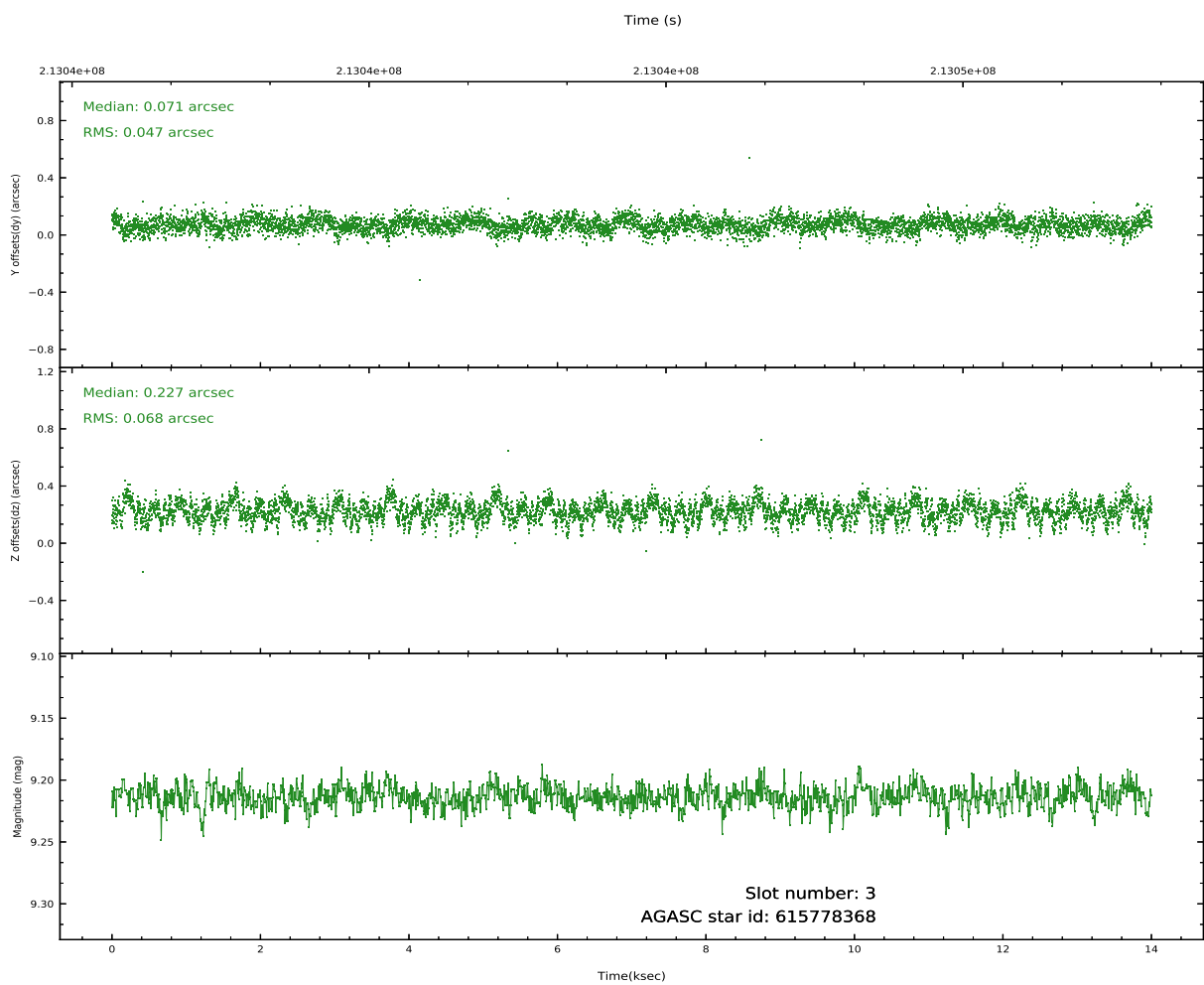
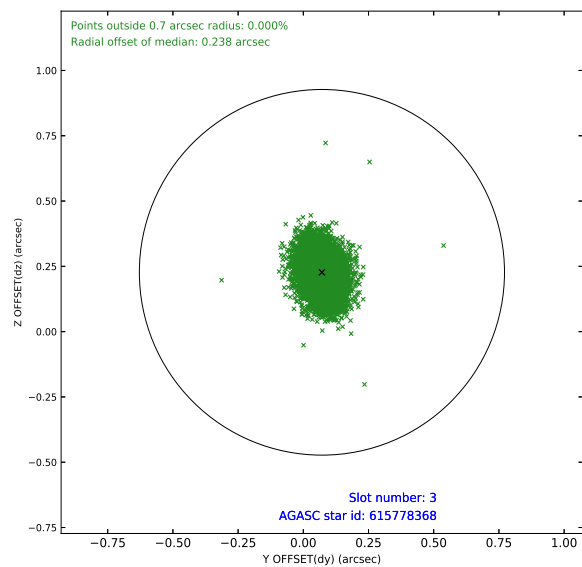
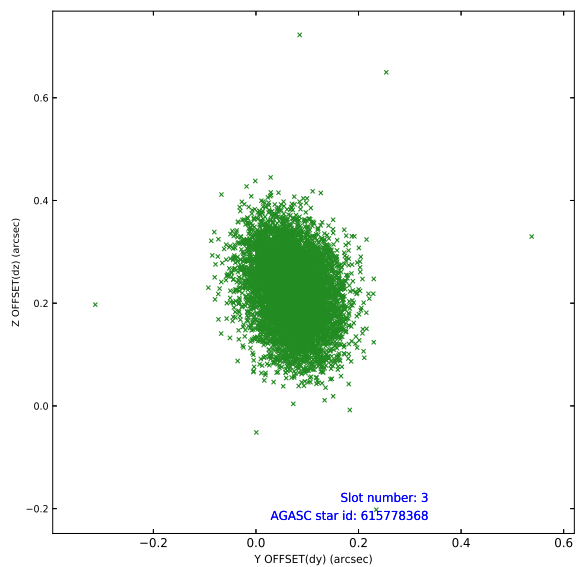
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	3415	1.000	0.044	-0.047	0.007	0.012	0.000000	0.000000	936.28	-1726
1	FID		ACIS-S-5	7.24	3416	1.000	-0.106	0.022	0.007	0.011	0.000000	0.000000	-1812.70	170
2	FID		ACIS-S-6	7.35	3415	1.000	0.041	0.037	0.007	0.011	0.000000	0.000000	401.45	815
3	GUIDE	used	615778368	9.21	6825	1.000	0.071	0.227	0.087	0.143	38.735505	-1.189108	-1170.44	-282
4	GUIDE	used	615779744	8.44	6829	1.000	-0.056	-0.122	0.059	0.094	38.723845	-0.370198	1740.49	183
5	GUIDE	used	615780704	8.85	6824	1.000	0.005	0.171	0.074	0.124	38.952780	-0.349754	1932.56	-620
6	GUIDE	used	615777544	9.55	6828	1.000	0.087	-0.202	0.104	0.170	38.026395	-0.885081	-455.43	2400
7	GUIDE	used	615779224	8.60	6827	1.000	-0.108	-0.074	0.111	0.166	38.120893	-0.742469	101.10	2139

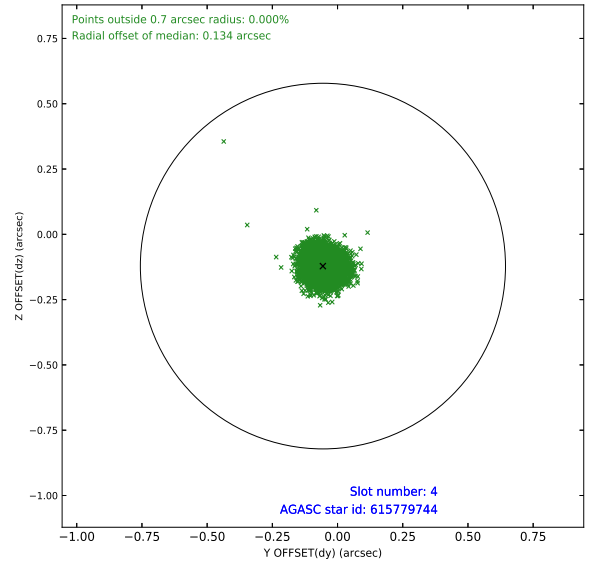
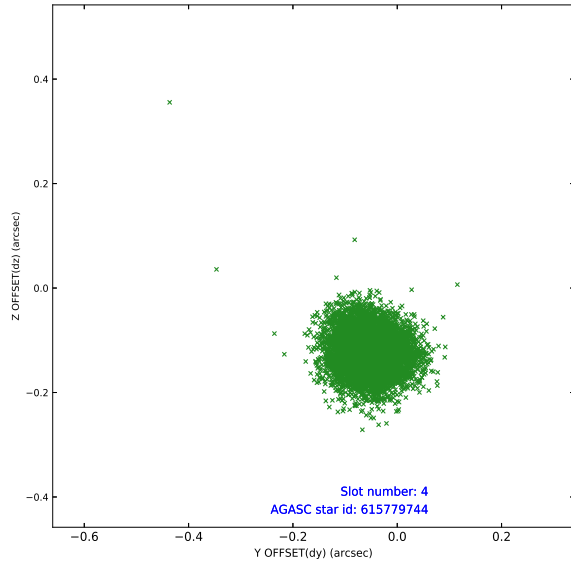
∞

## 2.4 Star Slots

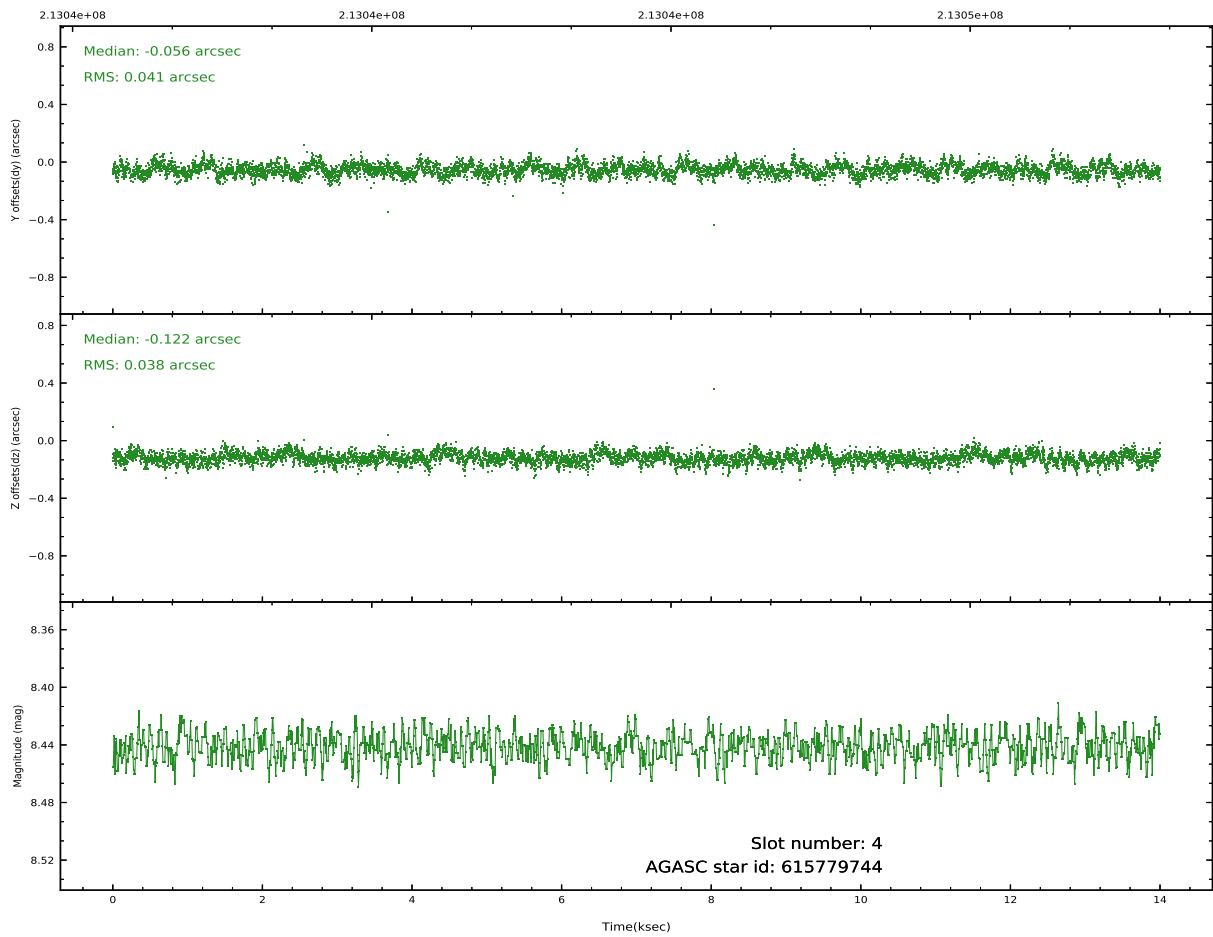
### 2.4.1 Slot 3



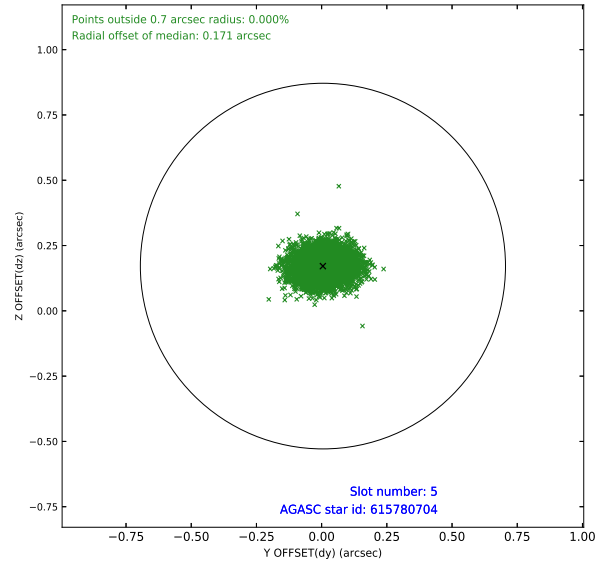
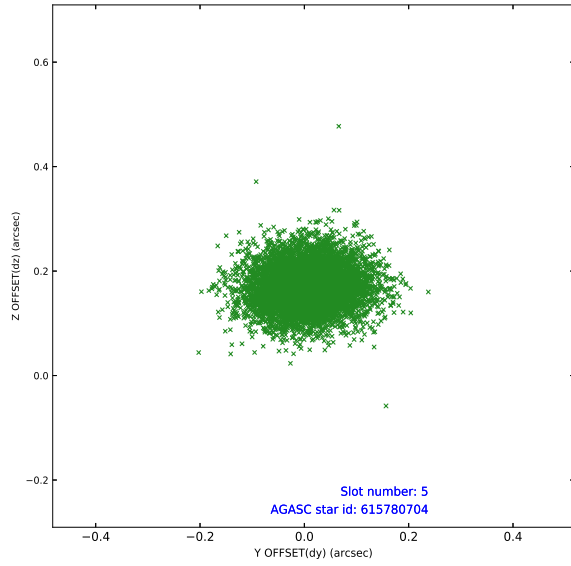
## 2.4.2 Slot 4



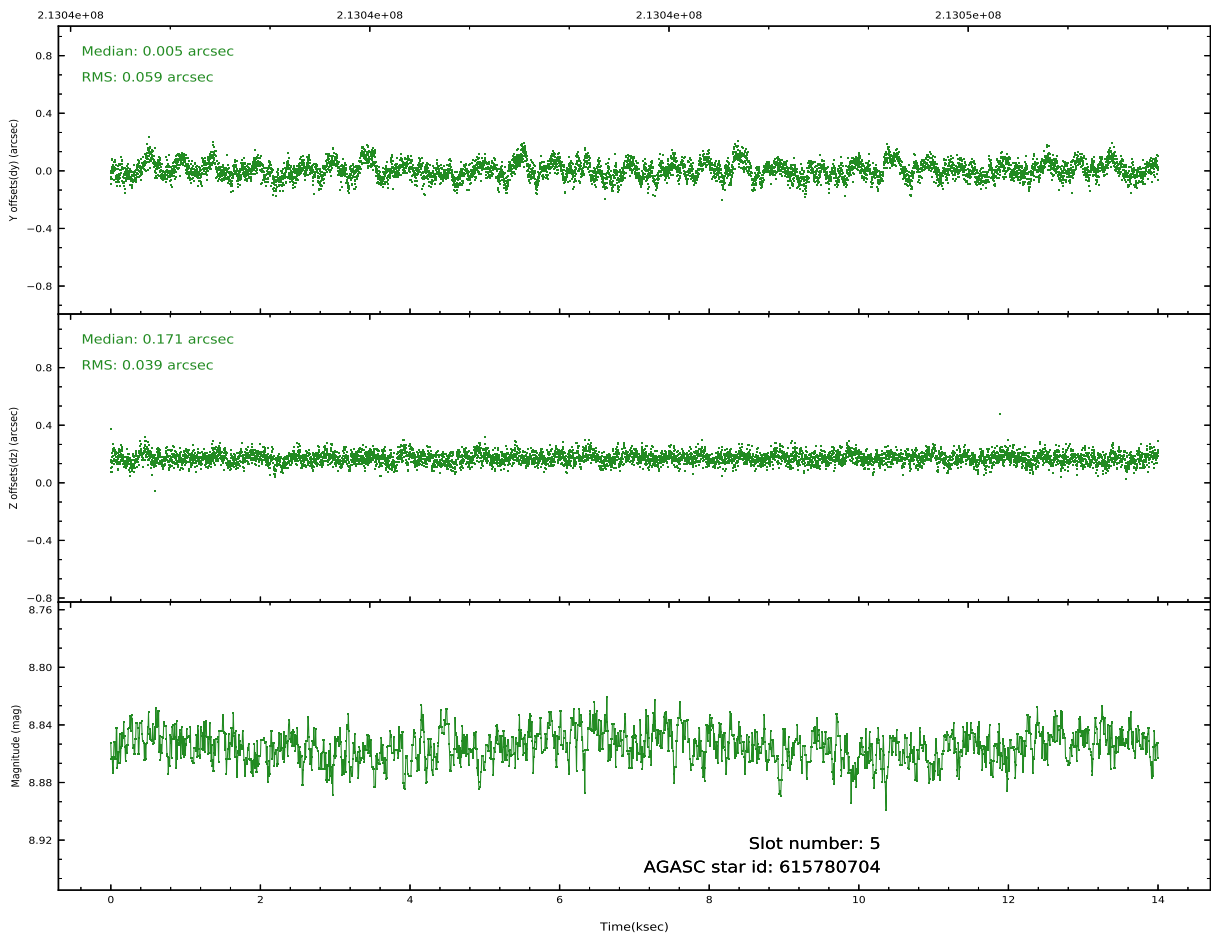
Time (s)



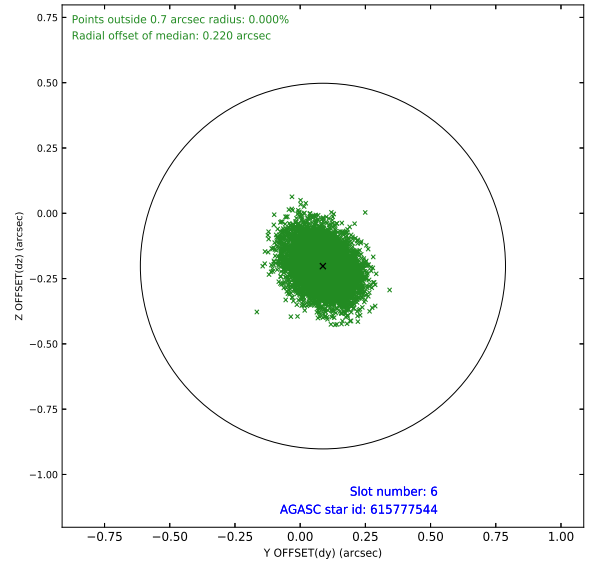
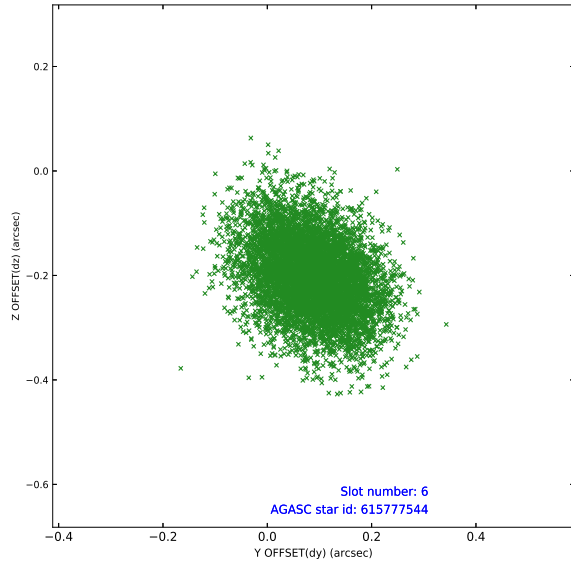
### 2.4.3 Slot 5



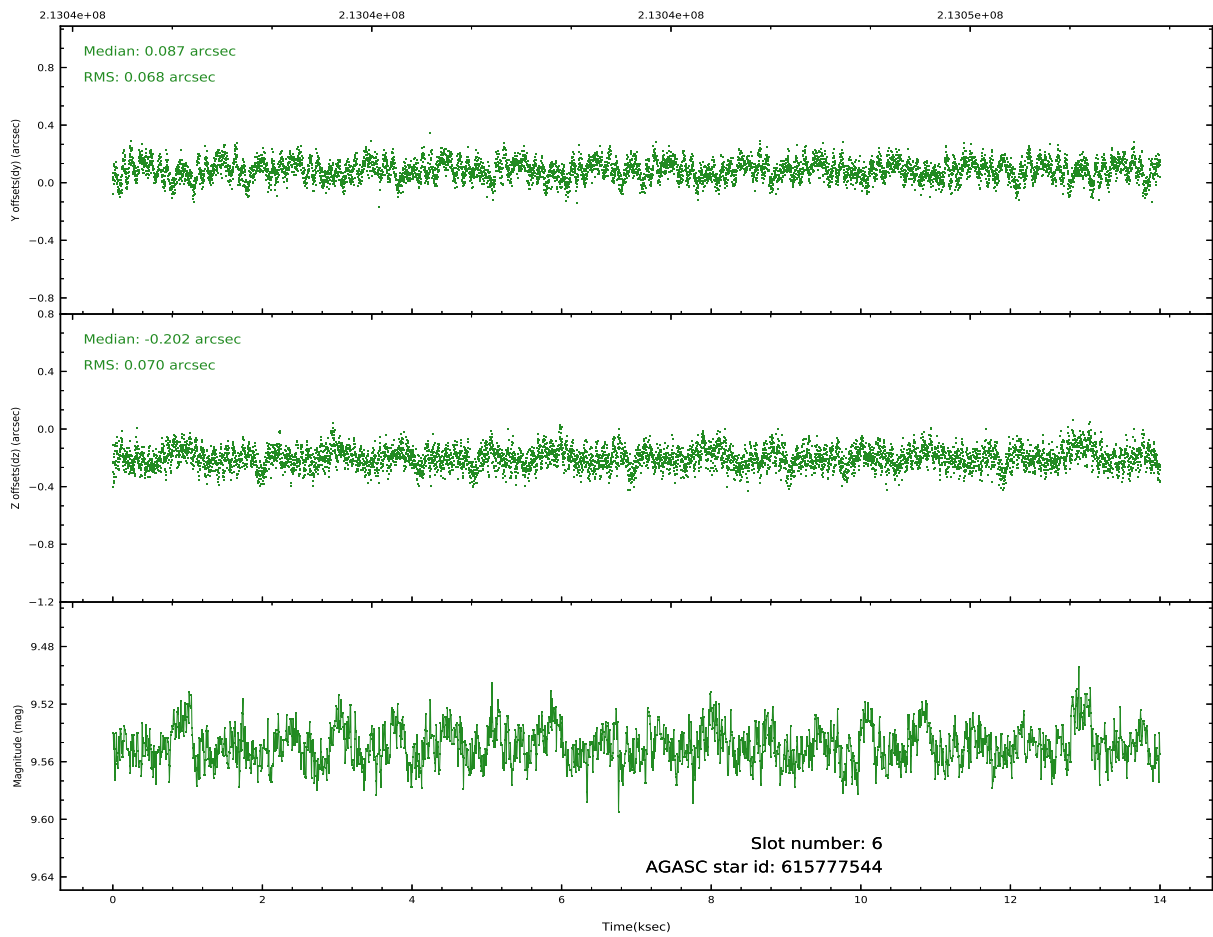
Time (s)



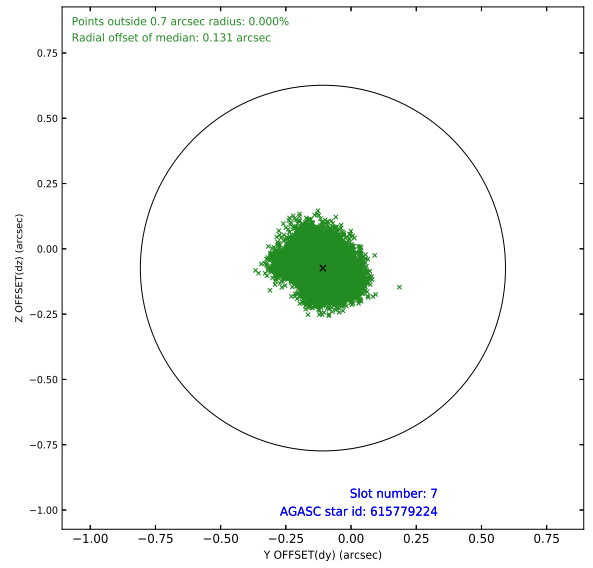
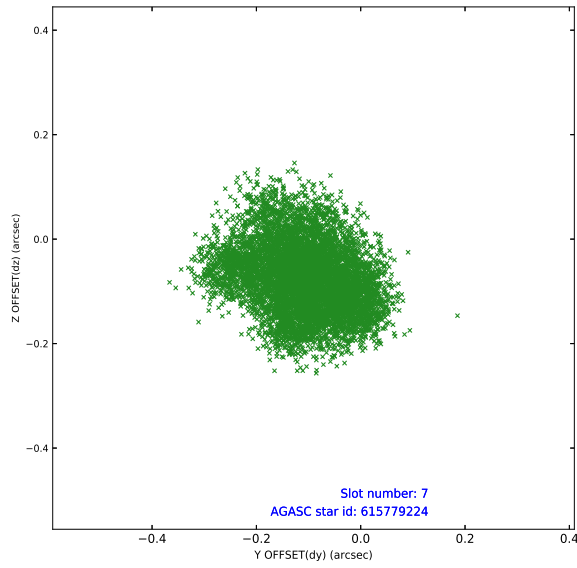
## 2.4.4 Slot 6



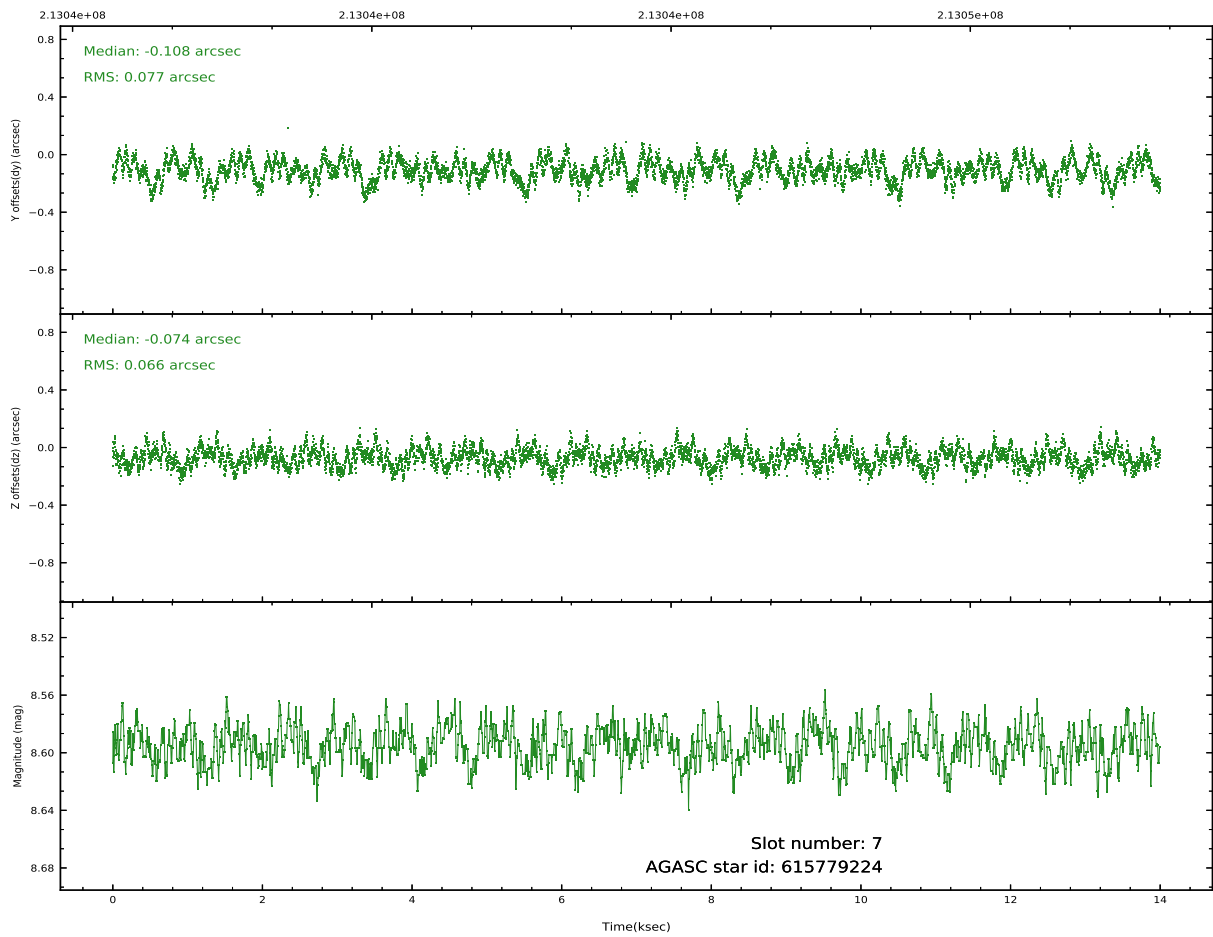
Time (s)



## 2.4.5 Slot 7

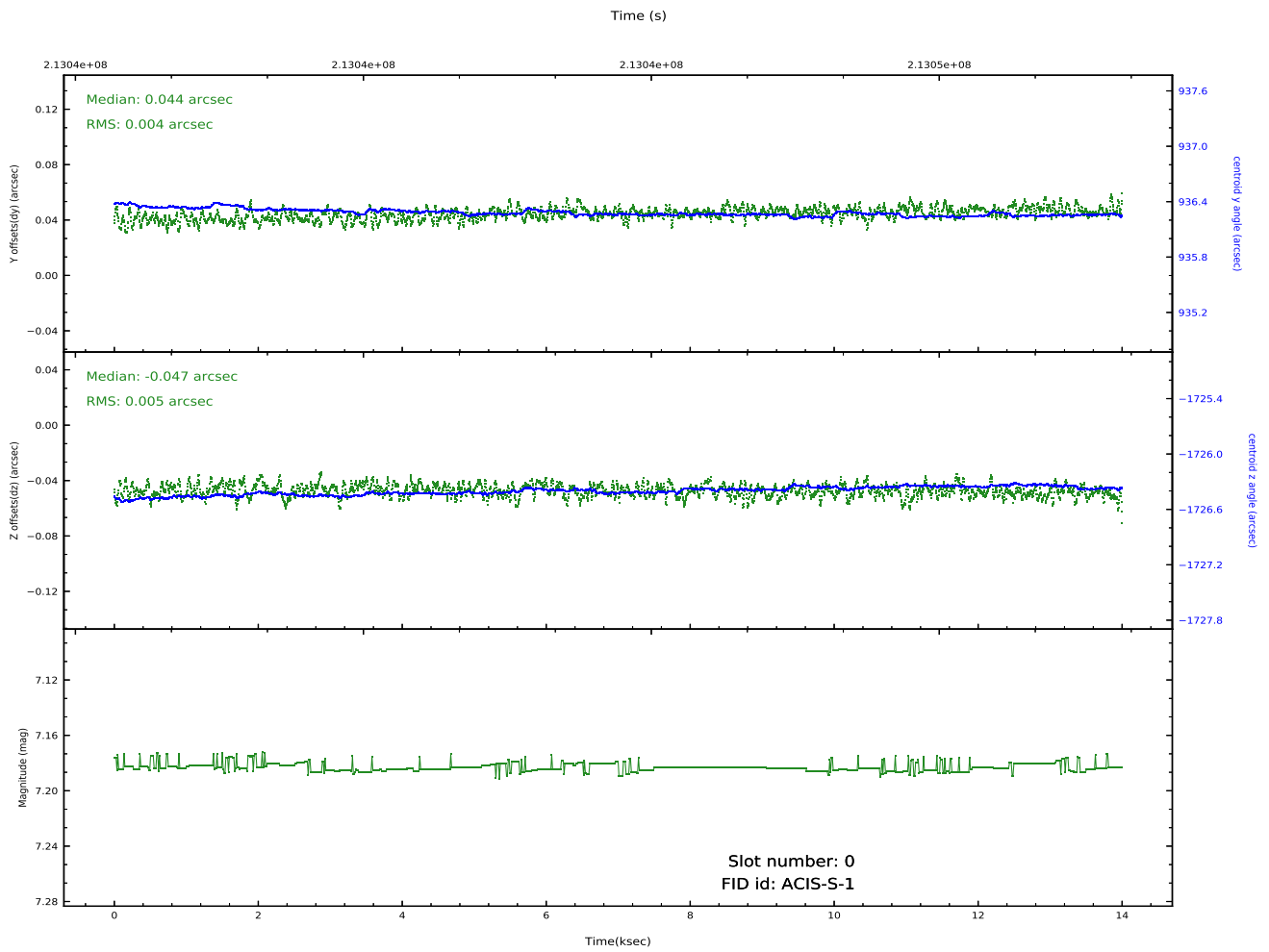
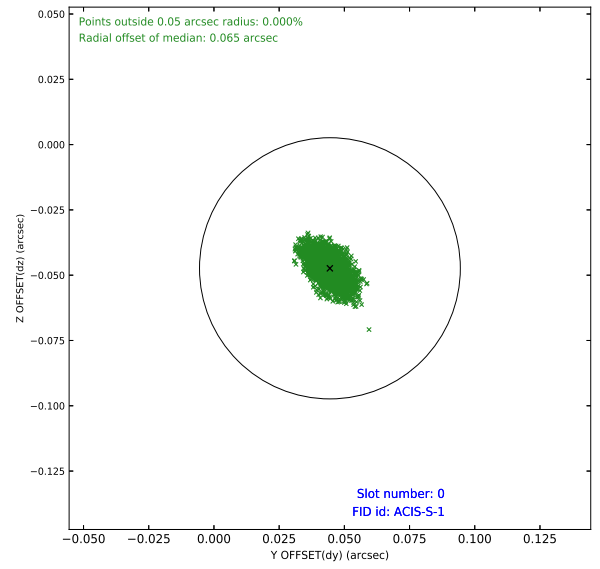
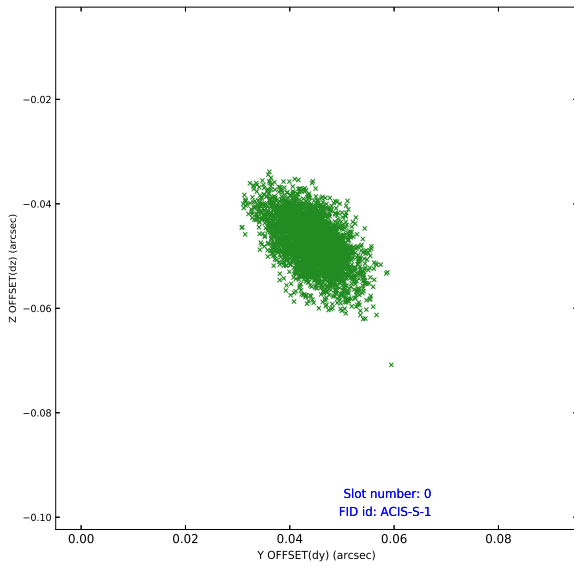


Time (s)

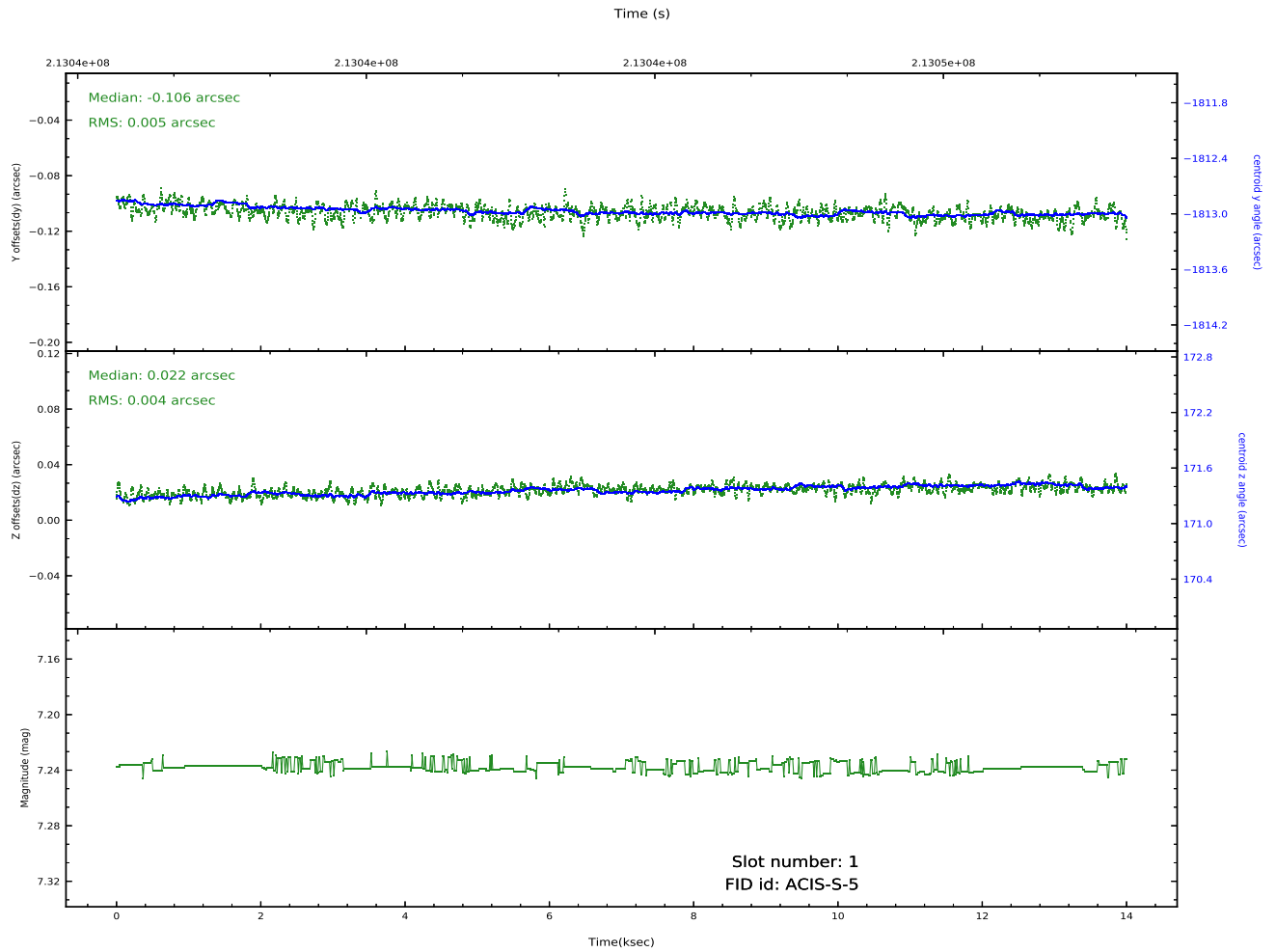
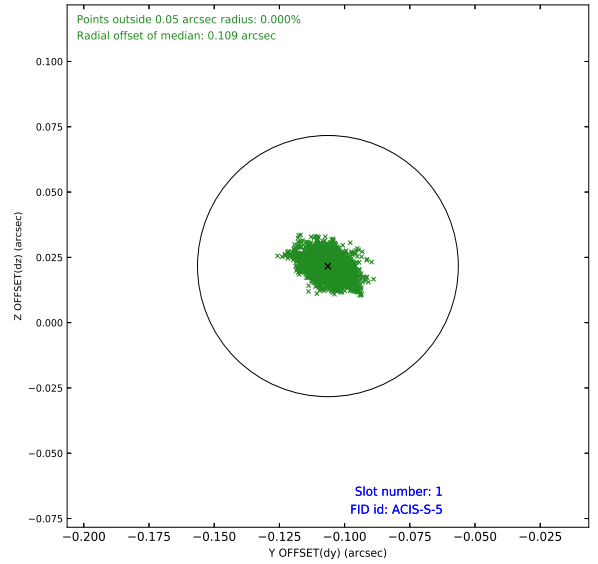
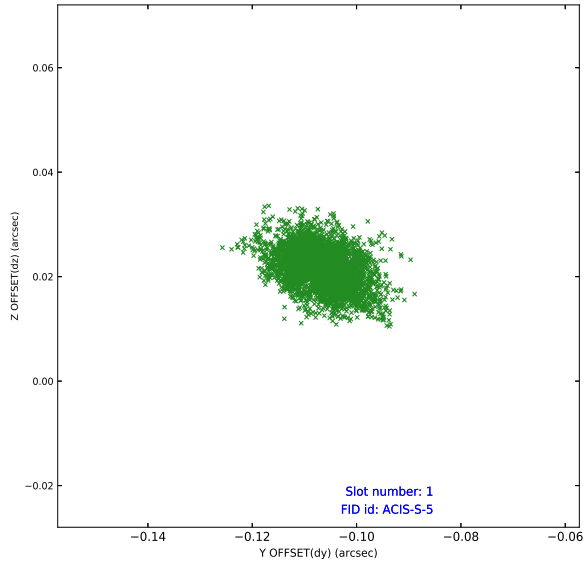


## 2.5 FID Slots

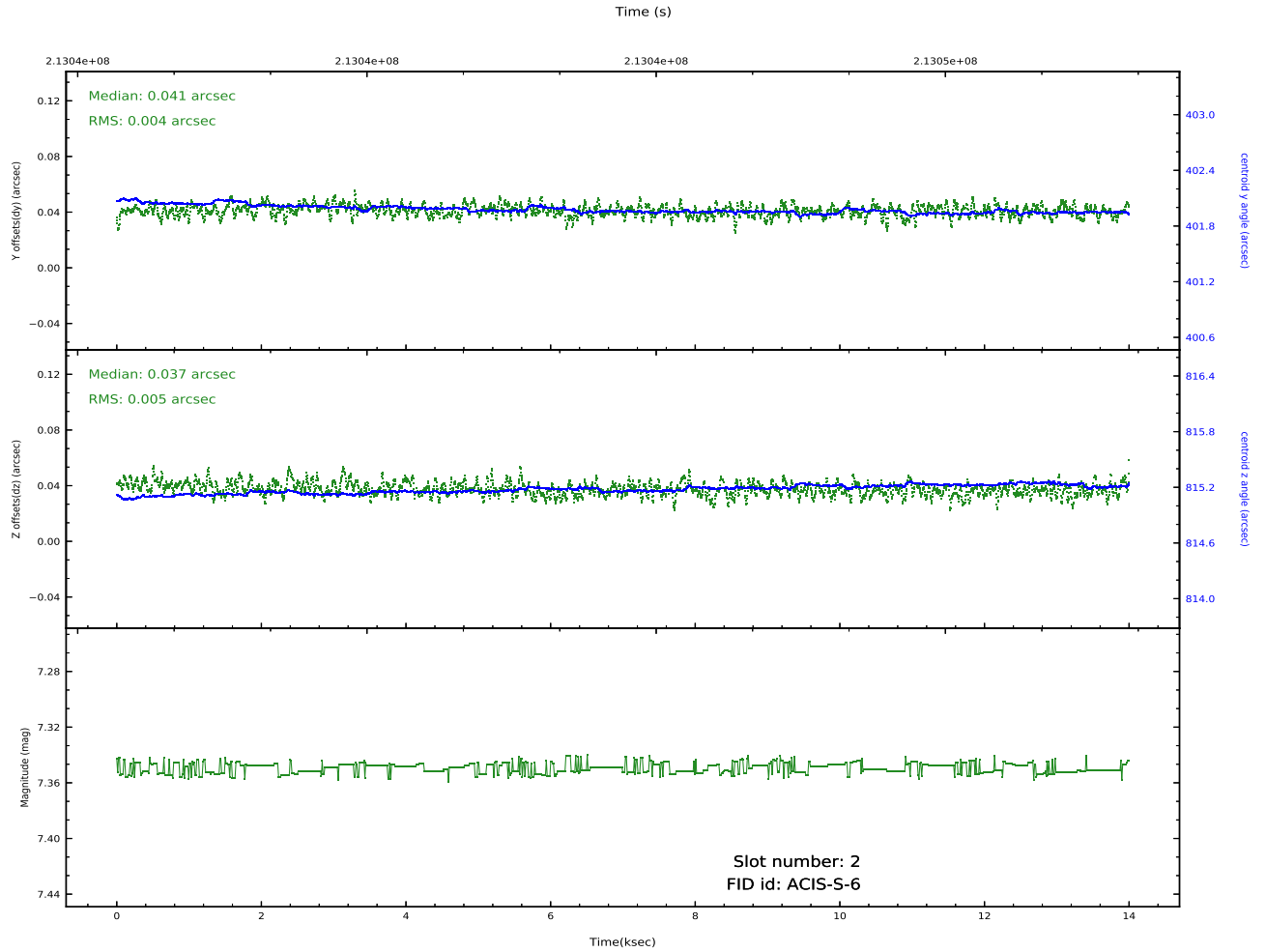
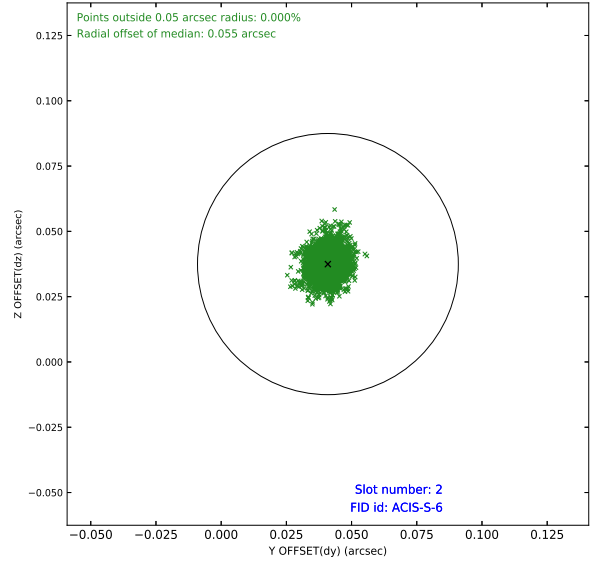
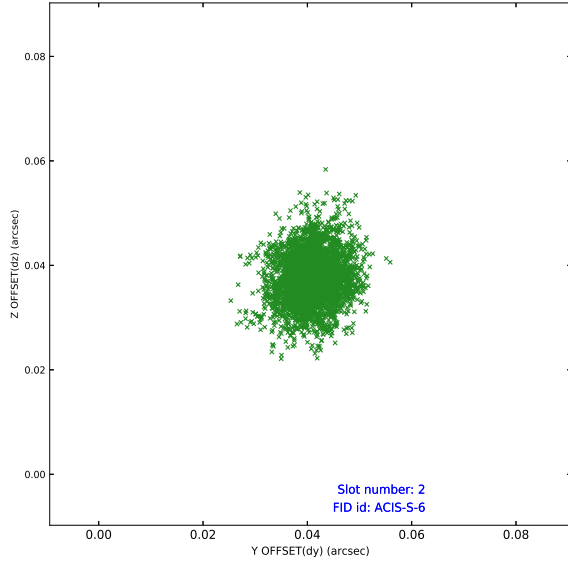
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.459

## A.2 Comments